

IN THE CLAIMS:

The following is a complete listing of the claims in this application, reflects all changes currently being made to the claims, and replaces all earlier versions and all earlier listings of the claims:

Claim 1. (Currently Amended) An image processing apparatus for generating image data ~~of a document~~ by processing document data ~~representing the document and,~~
comprising:

storage means for storing document data described in a predetermined structured description language, wherein the document data contains at least one character of a first font size; ~~comprising:~~

analysis means for analyzing the document data stored by said storage means and recognizing the first font size ~~information~~ contained in the document data, ~~the font size information being information on the font size applied to a character or a character train contained in the document represented by the document data,~~ and for recognizing the character ~~or the character train~~ contained in the document ~~represented by the document data~~ to which the first font size ~~information~~ is applied;

instruction input means for, when providing a print instruction, entering, via an operation panel, information relating to a ~~standard~~ second font size to be used for formatting the document data for printing on at least one print page, the second font size being different from the first font size;

image forming means for executing an image forming process such that data

representing the character ~~or the character train~~ recognized by said analysis means is outputted for printing on the at least one print page on which contents of the document data are laid out at the ~~standard~~ second font size entered by said instruction input means instead of the first font size ~~represented by the font size information~~ contained in the document data; and

printing means for printing data based on print data formed in the image forming process executed by said image forming means,

wherein the document data does not include a concept of page.

Claim 2. (Currently Amended) An apparatus according to claim 1, wherein:

said analysis means calculates a magnification change rate utilizing the font size ~~information~~ contained in the document data, and information relating to the ~~standard~~ second font size entered by said instruction input means; and

said image forming means executes the image forming process by changing the magnification of the character ~~or the character train, to which said font size information is applied,~~ by the magnification change rate so as to output for printing on the at least one print page data representing the character ~~or the character train~~ at the ~~standard~~ second font size.

Claim 3. (Currently Amended) An apparatus according to claim 1, wherein:

the document data include information for designating ~~a specified~~ the first font size for a specified character, ~~or a specified character train~~ recognizable by said analysis means; and

said image forming means executes the image forming process such that data

representing the specified character ~~or the specified character train~~, for which the ~~specified~~ first font size is designated, is outputted for printing on the at least one print page at the ~~standard~~ second font size entered by said instruction input means regardless of the information designating the ~~specified~~ first font size.

Claim 4. (Currently Amended) An apparatus according to claim 1, wherein:
the ~~standard~~ second font size is designatable by the document data;
said analysis means calculates a magnification change rate utilizing a base font size and the ~~standard~~ second font size entered by said instruction input means; and
said image forming means executes the image forming process by applying the magnification change rate to the entire character information contained in the document data in such a manner that data representing a character ~~or a character train~~, to which the base font size is applied, is outputted for printing on the at least one print page at the ~~standard~~ second font size entered by said instruction input means.

Claim 5. (Currently Amended) An apparatus according to claim 1, wherein:
said analysis means recognizes the most frequent font size occurring in the document data; and
said image forming means executes the image forming process such that data representing a character ~~or a character train~~, to which the most frequent font size recognized by said analysis means is applied, is outputted for printing on the at least one print page at the ~~standard~~ second font size entered by said instruction input means.

Claim 6. (Currently Amended) An apparatus according to claim 1, wherein:
said analysis means recognizes a minimum font size in the document data; and
said image forming means executes the image forming process such that data
representing character information formatted for printing on the at least one print page is
outputted for printing on the at least one print page a font size at least equal to the ~~standard~~
second font size entered by said instruction input means when said analysis means recognizes the
minimum font size.

Claim 7. (Currently Amended) An apparatus according to claim 1, wherein:
the document data includes at least object data representing an image or a table
and the character ~~or the character train~~;
said analysis means detects the size of an image represented by the object data;
and
said image forming means executes an image forming process such that data
representing the image or the table formatted to fit and be printed on the at least one print page is
outputted after said analysis means detects the size of the image and that data representing the
character ~~or the character train~~ contained in the document data is outputting for printing on the at
least one print page at the ~~standard~~ second font size entered by said instruction input means.

Claim 8. (Currently Amended) An apparatus according to claim 1, wherein:
the document data includes at least object data representing an image or a table
and the character ~~or the character train~~;

said analysis means detects the size of the image represented by the object data;
and

said image forming means executes the image forming process such that the image, when printed on the at least one print page, is subjected to a magnification change according to the width of the least one print page on which the image is to be printed and that data representing the character ~~or the character train~~ contained in the document data is outputted for printing on the at least one print page at the ~~standard~~ second font size entered by said instruction input means.

Claim 9. (Previously Presented) An apparatus according to claim 1, wherein said apparatus communicates with an arbitrary server apparatus for receiving and processing the document data.

Claim 10. (Currently Amended) An apparatus according to claim 1, further comprising selection means for selecting a method of formatting the document data to be printed on the at least one print page according to an instruction of the user, wherein a method for calculating a magnification change rate changing the magnification of the character ~~or the character train~~ is determined according to the result of the selection by said selection means.

Claim 11. (Previously Presented) An apparatus according to claim 1, further comprising a printing unit configured to print the document in accordance with the image forming process executed said image forming means.

Claim 12. (Original) An apparatus according to claim 1, wherein said apparatus is a printer.

Claim 13. (Currently Amended) An image processing method for generating image data ~~of a document~~ by processing document data, ~~representing the document~~, comprising:
a storage step of storing document data described in a predetermined structured description language, wherein the document data contains at least one character of a first font size; ~~comprising:~~

an analysis step of analyzing the document data stored in said storage step and recognizing the first font size information contained in the document data, ~~the font size information being information on the font size applied to a character or a character train contained in the document represented by the document data~~, and for recognizing the character ~~or the character train~~ in the document data to which the first font size information is applied;

an instruction input step of, when providing a print instruction, entering, via an operation panel, information relating to a ~~standard~~ second font size to be used for formatting the document data for printing on at least one print page, the second font size being different from the first font size;

an image forming step of executing an image forming process such that data representing the character ~~or the character train~~ recognized by said analysis step is outputted for printing on the at least one print page on which contents of the document data are laid out at the ~~standard~~ second font size entered by said instruction input step, instead of the first font size ~~represented by the font size information contained in the document data~~; and

a printing step of printing data based on print data formed in the image forming process executed in said image forming step,

wherein the document data does not include a concept of page.

Claim 14. (Currently Amended) A method according to claim 13, wherein:

said analysis step calculates a magnification change rate utilizing the first font size ~~information~~ indicated by specified character information contained in the document data, and information relating to the ~~standard~~ second font size entered by said instruction input step; and

said image forming step executes an image forming process such that data representing a character ~~or a character train, indicated by the specified character information~~ is outputted for printing on the at least one physical sheet at a font size changed by the magnification change rate calculated in said analysis step.

Claim 15. (Currently Amended) A method according to claim 13, wherein:

the document data include information for designating ~~a specified~~ the first font size for a specified character ~~or a specified character train~~ recognized by said analysis step; and

said image forming step executes the image forming process such that data representing the character ~~or the character train~~, for which the ~~specified~~ first font size is designated, is outputted for printing on the at least one print page at the ~~standard~~ second font size entered by said instruction input step regardless of the information designating the ~~specified~~ first font size.

Claim 16. (Currently Amended) A method according to claim 13, wherein:
the ~~standard~~ second font size is designatable by the document data;
said analysis step calculates a magnification change rate utilizing a base font size
and the ~~standard~~ second font size entered by said instruction input step; and
said image forming step is executed by applying the magnification change rate
to the entire character information contained in the document data such that data representing a
character ~~or a character train~~, to which the base font size is applied, is outputted for printing on
the at least one print page at the ~~standard~~ second font size entered by said instruction input step.

Claim 17. (Currently Amended) A method according to claim 13, wherein:
said analysis step recognizes a minimum font size in the document data; and
said image forming step executes the image forming process such that data
representing character information formatted for printing on the at least one print page is
outputted for printing on the at least one print page at a font size at least equal to the ~~standard~~
second font size entered by said instruction input step when said analysis step recognizes the
minimum font size.

Claim 18. (Currently Amended) A method according to claim 13, wherein:
the document data includes at least object data representing an image or a table
and the character ~~or the character train~~;
said analysis step detects the size of the image represented by the object data;

and

said image forming step executes the image forming process such that data representing the image or the table formatted to fit and be printed on the least one print page is outputted after said analysis step detects the size of the image, and that data representing the character ~~or the character train~~ contained in the document data is outputted for printing on the at least one print page at the ~~standard~~ second font size entered by said instruction input step.

Claim 19. (Currently Amended) A method according to claim 13, wherein:

the document data includes at least object data representing an image or a table and the character ~~or the character train~~;

said analysis step detects the size of an image represented by the object data;

and

said image forming step executes an image forming process such that the image, when printed on the at least one print page, is subjected to a magnification change according to the width of the at least one print page on which the image is to be printed and that data representing the character ~~or the character train~~ contained in the document data is outputted for printing on the at least one print page at the ~~standard~~ second font size entered by said instruction input step.

Claim 20. (Currently Amended) A method according to claim 13, further comprising an acquisition step of communicating with an arbitrary server apparatus for receiving and processing the document data.

Claim 21. (Previously Presented) A method according to claim 13, further comprising a selection step of selecting a method of formatting the document data to be printed on the print page according to an instruction of the user, wherein a calculation method for calculating a magnification change rate changing the magnification of the character ~~or character train~~ is determined according to the result of the selection by said selection step.

Claim 22. (Previously Presented) A method according to claim 13, image forming process executed in said image forming step.

Claim 23. (Original) A method according to claim 13, wherein said method is used in a printer.

Claim 24. (Currently Amended) A computer readable memory medium storing a program for causing a computer to execute an image processing method for generating image data ~~of a document~~ by processing document data ~~representing the document and~~, comprising:
a storage step of storing document data described in a predetermined structured description language, wherein the document data contains at least one character of a first font size; ~~the method comprising:~~

an analysis step of analyzing the document data stored in said storage step and recognizing the first font size ~~information~~ contained in the document data, ~~the font size~~ ~~information being information on the font size applied to a character or a character train contained in the document represented by the document data;~~ and recognizing the character ~~or the character~~

~~train in the document represented by~~ the document data to which the first font size ~~information~~ is applied;

an instruction input step of, when providing a print instruction, entering, via an operation panel, information relating to a ~~standard~~ second font size to be used for formatting the document data for printing on at least one print page, the second font size being different from the first font size;

an image forming step of executing an image forming process such that data representing the character ~~or the character train~~ recognized by said analysis step is outputted for printing on the at least one print page on which contents of the document data are laid out at the ~~standard~~ second font size entered by said instruction input step, instead of the first font size ~~represented by the font size information~~ contained in the document data; and

a printing step of printing data based on print data formed in the image forming process executed in said image forming step,

wherein the document data does not include a concept of page.

Claims 25 - 37. (Canceled).

Claim 38. (Currently Amended) An image processing method according to claim 19, further comprising a format process step for scaling each character in the document to a base character size when data representing the document is outputted for printing on the at least one print page in said image forming step, based on a font size designated in print set information and the ~~standard~~ second font size inputted by said instruction input step.

Claims 39 and 40. (Canceled).

Claim 41. (Currently Amended) An image processing apparatus for generating image data of a structured document by processing document data, representing the structured document, described by a predetermined structured description language, comprising:

image forming means for executing an image forming process such that data representing a at least one character ~~or a character train~~ contained in the document data is outputted for printing on at least one print page on which contents of the document data are laid out at a second font size entered via an operation panel of said image processing apparatus regardless of information for designating a first font size, set for the character information in the document data representing the structured document, the second font size being different from the first font size,

wherein the document data does not include a concept of page.

Claims 42 and 43. (Canceled).

Claim 44. (Currently Amended) An apparatus according to claim 41, wherein information designating the first font size and set for a character in the structured document is described by tag information designating the first font size in HTML or XML.

Claim 45. (Currently Amended) An image processing method for generating image data of a structured document by processing document data, representing the structured

document, described by a predetermined structured description language, comprising:

an image forming step of executing an image forming process such that data representing ~~[[a]]~~ at least one character or a character train contained in the document data is outputted for printing on at least one print page on which contents of the document data are laid out at a second font size entered via an operation panel of the image processing apparatus regardless of information for designating a font size, set for the character information in the document data representing the structured document, the second font size being different from the first font size,

wherein the document data does not include a concept of page.

Claims 46- 48. (Canceled).